#8

OIPE

RAW SEQUENCE LISTING   DATE: 04/01/2002
PATENT APPLICATION: US/09/939,780   TIME: 15:06:44

Input Set : N:\Crf3\RULE60\09939780.raw
Output Set: N:\CRF3\04012002\I939780.raw

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 1 <110> APPLICANT: O'Connor, Michael
 2 <120> TITLE OF INVENTION: Immunological Assay for Spongiform Encephalopathies
 3 <130> FILE REFERENCE: 50002US
 4 <140> CURRENT APPLICATION NUMBER: 09/939,780
 5 <141> CURRENT FILING DATE: 2001-08-28
 7 <150> PRIOR APPLICATION NUMBER: 09/147,761
 8 <151> PRIOR FILING DATE: 1999-03-03
11 <150> PRIOR APPLICATION NUMBER: PCT/IE98/00007
12 <151> PRIOR FILING DATE: 1998-02-06
13 <160> NUMBER OF SEQ ID NOS: 5
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 45
18 <212> TYPE: PRT
19 <213> ORGANISM: Artificial Sequence
20 <220> FEATURE:
21 <221> NAME/KEY: UNSURE
22 <222> LOCATION: (45)
23 <223> OTHER INFORMATION: any amino acid
24 <223> OTHER INFORMATION: Description of Artificial Sequence: prion protein
25       specific synthetic peptide
```

ENTERED

```
W--> 26 <400> 1
27       Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Val
28        1               5                  10                  15
29       Ala Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly
30                      20                  25                  30
W--> 31  Gly Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Xaa
32                      35                  40                  45
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 43
36 <212> TYPE: PRT
37 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Description of Artificial Sequence:prion protein
40       specific synthetic peptide
41 <400> SEQUENCE: 2
42       Gly Ser Pro Gly Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp
43        1               5                  10                  15
44       Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp
45                      20                  25                  30
46       Gly Gln Pro His Gly Gly Gly Gln Gly Gln Pro
47                      35                  40
49 <210> SEQ ID NO: 3
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```
 50 <211> LENGTH: 43
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Artificial Sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Description of Artificial Sequence:prion protein
 55       specific synthetic peptide
 56 <400> SEQUENCE: 3
 57       Gly Gly Gly Gly Trp Gly Gln Gly Gly Ser His Ser Gln Trp Asn Lys
 58        1            5                10                15
 59       Pro Ser Lys Pro Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala
 60                    20              25              30
 61       Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
 62                    35              40
 64 <210> SEQ ID NO: 4
 65 <211> LENGTH: 46
 66 <212> TYPE: PRT
 67 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: Description of Artificial Sequence:prion protein
 70       specific synthetic peptide
 71 <400> SEQUENCE: 4
 72       Met Leu Gly Ser Ala Met Ser Ser Pro Leu Ile His Phe Gly Asn Asp
 73        1            5                10                15
 74       Tyr Glu Asp Arg Tyr Thr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln
 75                    20              25              30
 76       Val Tyr Tyr Arg Pro Val Asp Arg Tyr Ser Asn Gln Asn Asn
 77                    35              40              45
 79 <210> SEQ ID NO: 5
 80 <211> LENGTH: 33
 81 <212> TYPE: PRT
 82 <213> ORGANISM: Artificial Sequence
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: Description of Artificial Sequence:prion protein
 85       specific synthetic peptide
W--> 86 <221> NAME/KEY: UNSURE
 87 <222> LOCATION: (1)
 88 <223> OTHER INFORMATION: one or more amino acid(s); some may be missing.
W--> 89 <221> VARIANT
 90 <222> LOCATION: (2)
 91 <223> OTHER INFORMATION: Met, Leu, or Phe
W--> 92 <221> VARIANT
 93 <222> LOCATION: (5)
 94 <223> OTHER INFORMATION: Met or Val
W--> 95 <221> VARIANT
 96 <222> LOCATION: (11)
 97 <223> OTHER INFORMATION: Ala or absent
W--> 98 <221> VARIANT
 99 <222> LOCATION: (31)
100 <223> OTHER INFORMATION: Leu, Ile, or Met
```

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Input Set : N:\Crf3\RULE60\09939780.raw
Output Set: N:\CRF3\04012002\I939780.raw

```
W--> 101 <221> VARIANT
     102 <222> LOCATION: (32)
     103 <223> OTHER INFORMATION: Leu, Ile, or Met
W--> 104 <221> UNSURE
     105 <222> LOCATION: (33)
     106 <223> OTHER INFORMATION: one or more amino acid(s); some may be missing.
W--> 107 <400> 5
W--> 108       Xaa Xaa Lys His Xaa Ala Gly Ala Ala Ala Xaa Gly Ala Val Val Gly
     109        1               5                  10                  15
W--> 110       Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Xaa Xaa
     111                    20                  25                  30
W--> 112       Xaa
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/01/2002
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Input Set : N:\Crf3\RULE60\09939780.raw
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 45
Seq#:5; Xaa Pos. 1,2,5,11,31,32,33

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/939,780

DATE: 04/01/2002
TIME: 15:06:45

Input Set : **N:\Crf3\RULE60\09939780.raw**
Output Set: **N:\CRF3\04012002\I939780.raw**

```
L:26 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:86 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:89 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:92 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:95 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:98 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:101 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:104 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:107 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:32
```